

IN THE CLAIMS:

1. (currently amended) A method for reverse processing a document from a scan subsystem to a document processing application ~~method~~, the method comprising:

at a scan subsystem, accepting scan data;

converting the scan data into a standard graphical interface format associated with a computer operating system (OS);

segmenting the standard graphical interface format data into data types selected from a group consisting of text, vectors, graphics, and combinations of the above-mentioned types;

at a document processing application, ~~accepting graphics device interface (GDI) data;~~

converting the segmented standard graphical interface format [[GDI]] data into an internal representation (IR) data format proprietary to the document processing application; and,

parsing the document processing application IR data into a standard language document format specified for use with the document processing application

~~supplying the IR data to a user interface (UI) display;~~

~~accepting user commands at the UI; and,~~

~~manipulating the IR data in response to the user commands.~~

2. (currently amended) The method of claim 1 further comprising:

~~parsing the IR data into a standard language document format specified for use with the document processing application; and,~~

saving the standard language document in storage memory.

3-4. canceled

5. (currently amended) The method of claim 1 further comprising:

~~at a scan subsystem, accepting scan data;~~

converting the scan data into device dependent data (DDI); and,

wherein converting the scan data to the standard graphical interface includes converting the DDI data to graphics device interface (GDI) data.

6. (original) The method of claim 5 wherein accepting scan data includes accepting proprietary formatted scan data;

wherein converting the scan data into DDI data includes converting the proprietary scan data to an operating system (OS) specific DDI data format; and,

wherein converting the DDI data to GDI data includes converting the OS specific DDI data to a standard GDI data format.

7. (original) The method of claim 5 wherein accepting scan data includes accepting scan data from a device selected from the group including a scanning device, facsimile device, electronic whiteboard, tablet personal computer, and a storage device.

8. (original) The method of claim 5 wherein converting scan data to DDI data includes converting journaled scan data.

9. (original) The method of claim 8 wherein converting journaled scan data includes:

despooling the scan data;

converting the scan data to DDI data;

respooling the DDI data; and,

wherein converting the DDI data to GDI data includes subsequently despooling the DDI for conversion into GDI data.

10. (currently amended) The method of claim 1 further comprising:

converting document processing application IR data into the standard graphic interface format associated with the computer OS GDI data;

at a print subsystem, converting the standard graphic interface format [[GDI]] data into scan [[DDI]] data; and,

converting the scan [[DDI]] data into printer-ready scan data.

11. (currently amended) A system for reverse processing a document from a scan subsystem to a converting graphics device interface ~~(GDI) data into document processing application data~~, the system comprising:

a scan subsystem including:

a scan driver having an interface to supply scan data;

and,

a graphical interface compiler having an interface to accept the scan data, the compiler converting the scan data into a

standard graphical interface format associated with an operating system (OS), and segmenting the standard graphical interface format data into data types selected from a group consisting of text, vectors, graphics, and combinations of the above-mentioned types and an interface;

~~a user interface (UI) including a display to present IR data, an interface to accept user commands, and an interface to supply the accepted user commands;~~

a document processing application including:

an internal representation (IR) compiler having an interface to accept segmented standard graphical interface format data from the graphical interface compiler ~~GDI data~~ and convert the segmented standard graphical interface format data ~~an interface to supply the GDI data converted~~ into an IR data format proprietary to the document processing application; and,

~~an editor having an interface to accept the IR data, an interface to supply the IR data to the UI, an interface accept the user commands, and an interface to supply IR data manipulated in response to the user commands~~

a parser having an interface to accept the IR data and an interface to supply a standard language document format specified for use with the document processing application.

12-15. canceled

16. (currently amended) The system of claim 15 wherein the scan driver accepts proprietary formatted scan data and converts the

proprietary scan data to an operating system (OS) specific DDI data format;
and,

wherein the graphical interface [[GDI]] compiler converts OS
specific DDI data to a standard GDI data format.

17. (original) The system of claim 15 further comprising:
a device, selected from the group including a scanning device,
facsimile device, electronic whiteboard, tablet personal computer, and a
storage device, having an interface to supply scan data to the scan driver.

18. (original) The system of claim 15 wherein the scan
subsystem further includes:

a scan processor for performing preprocessing operations on
scan data, having an interface to accept scan data, and an interface to supply
the scan data, the scan data being selected from the class including rendered
and journaled scan data; and,

a spooler having an interface to accept scan data from the scan
processor and an interface to supply scan data to the scan driver.

19. (original) The system of claim 18 wherein the scan
driver converts scan data to DDI data, and sends the DDI data to the scan
processor;

wherein the scan processor sends the DDI data to the spooler for
respooling; and,

wherein the scan driver subsequently despools the DDI data for
conversion into GDI data.

20. (currently amended) The system of claim 11 wherein the IR compiler has an interface accept IR data from the parser and an interface to supply IR data converted into standard graphical interface format [[GDI]] data;

the system further comprising:

a print subsystem including:

a graphical interface ~~a GDI~~ compiler having an interface to accept the standard graphical interface format [[GDI]] data from the IR compiler and convert the ~~an interface to supply~~ standard graphical interface format [[GDI]] data ~~converted~~ to scan [[DDI]] data; and,

a print driver having an interface to accept the scan [[DDI]] data and an interface to supply printer-ready data.

21. (original) The system of claim 12 further comprising:
a memory having an interface to accept the standard language document for persistent storage.

22. (new) The method of claim 10 wherein converting document processing application IR data into the standard graphic interface format includes converting to GDI data; and,
wherein converting the standard graphic interface format data into scan data includes converting GDI data to DDI data.

23. (new) The method of claim 1 further comprising:
supplying the IR data to a user interface (UI) display;
accepting user commands at the UI; and,
manipulating the IR data in response to the user commands.

24. (new) The system of claim 20 wherein the IR compiler supplies IR data converted into GDI data;
wherein print subsystem graphical interface compiler converts GDI data to DDI data; and,
wherein the print driver accepts DDI data supplies printer-ready data.

25. (new) The system of claim 11 further comprising:
a user interface (UI) including a display to present IR data, an interface to accept user commands, and an interface to supply the accepted user commands; and,
wherein the document processing subsystem further includes:
an editor having an interface to accept the IR data, an interface to supply the IR data to the UI, an interface accept the user commands, and an interface to supply IR data manipulated in response to the user commands.